

7/6/21 SK Pick up BHP-A-16  
no problems TFlow 208

7/7/21 Scott Hamilton & Kate Haile  
removed motor → missing rubber  
gasket.  
called Tisch to overnight pieces  
to IDEM

7/8/21 Scott Hamilton & Kate Haile  
replaced missing gasket, calibrated  
& completed flow check.  
ready for next sample run.  
 $R=0.9999$ , flow check +2.2% difference  
replaced bolt on motor

7/9/21 SK Set up BHP-A-17.  
Run date 7/11/21

7/12/21 SK picking BHP-A-17  
Flow 212 Vol. 305.23

7/13/21 Katie Healy downloaded BHP data

7/16/21 Katie Healy, Kate Haile, & Scott Hamilton  
10:45 CST  
removed faulty flow controller  
replaced with new flow controller from Tisch  
recalibrated sampler  $\rightarrow R=0.9999$   
performed flow check

$$\Delta T = -0.5^\circ C$$

$$\Delta P = -1 \text{ mmHg}$$

$$\Delta Q = 0.4\% \rightarrow \text{all checks pass}$$

7/16/21 (continued from page 10)

checked flow rate with PUF plug & filter  
flow rate is averaging ~216 liters/min  
when setpoint is 225 liters/min  
→ motor is likely not strong enough  
to pull 225 liters/min with  
plug & filter loaded

changed setpoint to 217 liters/min  
downloaded data on USB  
left at 12:15 CST

7/16/21 SK Set up BHP-A-18  
run date 7/17/21

7/19/21 SK Pick up BHP-A-18  
Only Run 30 min. NOT Set up Right.  
PBA-BHP-A-18  
Set up WAKEUP 7/20/21 changed to  
Start time 0:00 duration 24:00

7/21/21 SK Pick up BHP-A-18M  
Flow 208 Vol. 299.64

7/21/21 Kate Haile & Katie Healy  
arrived at 9:25 CST  
switched out brushless motor  
recalibrated sampler:  $R=0.9999$   
conducted one-point flow check: all checks pass  
new motor is still not strong enough to  
pull 225 liters/minute w/ PUF plug/filter  
will change sample time to 24:30 to  
ensure total volume  $\geq 300 \text{ m}^3$  for  
next sample - flow rate set to 225 liters/min  
downloaded data & left at 12:30 CST